

System suitable as a catalyst for the hydrocyanation of olefinically unsaturated compounds

Abstract

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A system which is suitable as a catalyst for the hydrocyanation of olefinically unsaturated compounds and comprises

a) Ni(0)

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b) a compound which complexes Ni(0) as a ligand and contains trivalent phosphorus,

c) a Lewis acid

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and

d) a compound of the formula M R_n

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M: Al or Ti

R: identical or different monovalent alkoxy radicals, in which case a plurality of alkoxy radicals may be bonded together, and additionally, in the case that M = Al, R may be identical or different monovalent alkyl radicals, in which case a plurality of alkyl radicals may be bonded together or one or more alkyl radicals may be bonded to one or more of the abovementioned alkoxy radicals;

30 n: valency of M,

and processes for hydrocyanating an olefinically unsaturated compound in the presence of such a system.